

KARPENKO, G.V., MIKHAYLOV, P.A., ISHCHENKO, I.I.

Simultaneous effect on the fatigue strength of steel of concentrated stress and surface active media. Dop. AN URSS no.5: 444-447 '55. (MIRA 9:3)

1. Institut mashinostroyeniya ta avtomatiki AN URSS. Predstaviv  
diysniy chlen AN URSS G.M. Savin.  
(Steel--Fatigue)(Elasticity)

KARPENKO, Georgiy Vladimirovich; YATSYUK, Arseniy Ivanovich; ISHCHEENKO, I.I.,  
kand. tekhn. nauk, vidp. red.; KISINA, I.V., red. vid-vo;  
SKLYAROVA, V.M., tekhn. red.

[Effect of surface working upon the strength of steel in active  
liquid media] Vplyv obrobky poverkhni na vtomnu mitnist' stali v  
aktyvnykh ridynnykh seredovyschakh. Kyiv, Vyd-vo Akad. nauk  
URSR, 1958. 113 p. (MIRA 11:7)

(Steel) (Metal cutting)

GROZIN, B.D., prof., doktor tekhn.nauk; CHUDNOVSKIY, V.G., doktor tekhn.nauk, retsenzent; VAYNBERG, D.V., doktor tekhn.nauk; retsenzent; BARABASH, M., kand.tekhn.nauk, retsenzent; DRAYGOR, D.A., kand.tekhn.nauk, retsenzent; ISHCHENKO, I.I., kand.tekhn.nauk, retsenzent; HEVA, L.P., kand.tekhn.nauk, retsenzent; SALION, V.Ye., kand.tekhn.nauk, retsenzent; SHIVCHUK, V.A., kand.tekhn.nauk, retsenzent; SOROKA, M.S., red.izd-va; RUDENSKIY, Ya.V., tekhn.red.

[Studies in metallography and wear resistance of metals; collection of papers] Issledovaniya v oblasti metallovedeniya i kontaktnoi prochnosti metallov; sbornik dokladov. Pod obshchei red. B.D. Grozina. Kiev, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958. 127 p. (MIRA 12:1)

1. AN Ukrainskoi RSR, Kiev. Instytut budivel'noi mekhaniky.
2. Chlen-korrespondent AN Ukrainskoy SSR (for Grozin).  
(Metallography) (Mechanical wear)

KARPENKO, Georgiy Vladimirovich [Karpenko, H.V.]; ISHCHEENKO, I.I., kand.  
tekhn.nauk, otv.red.; KISINA, I.V., red.izd-va; YEFIMOVA, M.I.  
[IEfimova, M.I.], tekhn.red.

[Corrosion fatigue of steel] Korozina vtoma stali. Kyiv,  
Vyd-vo Akad.nauk URSR, 1959. 175 p. (MIRA 13:1)  
(Steel-Fatigue)

ISHCHENKO, I.I.; MALASHENKO, S.V.

Sixtieth birthday of Mikhail Alekseevich Lavrent'ev. Prykl.  
mekh. 6 no.4:458-464 '60. (MIRA 13:11)  
(Lavrent'ev, Mikhail Alekseevich, 1900-)

S/021/62/000/012/012/0..8  
D251/D308

AUTHORS: Ishchenko, I.I. and Malinova'ka, I.A.  
TITLE: The fatigue strength of steel 45 after preliminary plastic elongation in water  
PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 12, 1962, 1598-1600

TEXT: The tests carried out by the authors showed that, in contradistinction to similar tests in air carried out by previous researchers (N.I. Chernyak, Mekhanicheskiye svoystva stali v oblasti mal'kikh plasticheskikh deformatsiy (Mechanical properties of steel in the region of small plastic deformation) Izd-vo AS UkrSSR, 1962; D.D. Papshev, Vestnik mashinostroyeniye, v. 10, 64, 1954; D.A. Draygor, Oznosostoykost' i ustalostnaya prochnost' stali v zavisimosti ot usily obrabotki i protsessa treniya (Abrasion stability and fatigue strength of steel in dependence on working strains and the friction process) Izd-vo AS UkrSSR, 1959) specimens of normalized, ground and machined steel 45 which were subjected to preliminary elongation did

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The fatigue strength ...

S/021/62/000/012/012/018  
D251/D308

not exhibit any sharp decrease in the fatigue strength on testing in water. Comparisons with the results for testing in air are given in graphical form. There are 2 figures.

ASSOCIATION: Instytut mekhaniky AN URSS (Institute of Mechanics of the AS UkrSSR)

PRESENTED: by F.P. Byelyankin, Academician

SUBMITTED: July 12, 1962

Card 2/2

L 2108-65 EWT(m)/EWP(q)/EWP(b) ASD(m)-3 MJW/JD/WB

ACCESSION NR: AP4037442

S/0021/64/000/005/0593/0595

AUTHOR: Ishchenko, I. I.; Maly\*novs'ka, I. A. (Malinovskaya, I. A.)

19  
18

TITLE: Effect of electroslag melting on the corrosion-fatigue strength of steel

SOURCE: AN UkrRSR. Dopovidi, no. 5, 1964, 593-595

TOPIC TAGS: corrosion-fatigue testing, corrosion fatigue, corrosion fatigue strength, electroslag melting, construction steel, ball bearing steel, ShKh-15 steel

ABSTRACT: Electroslag steel ShKh-15, prepared from normal ShKh-15 steel according to the electroslag melting process developed at the Institute of Welding imeni. Ye. O. Paton, was analyzed chemically and tested in a flexing apparatus in air and NaCl solution. This electroslag process is used for making construction and ball-bearing steels. Chemical non-metallic impurities were approximately halved by the process; property changed from 2.0 to 0.5 units, and durability in corrosion-fatigue testing rose 25% for air testing and 43% for

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L 2100 65

ACCESSION NR: AP4037442

testing in corrosive NaCl. Orig. art. has 2 tables and one graph.

ASSOCIATION: Instytut mekhaniky AN UkrRSR (Institute of Mechanics, AN UkrRSR)

SUBMITTED: 31Jul63

SUB CODE: MM

NO REF SOV: 002

ENCL: 00

OTHER: 000

Card 2/2

ISHCHENKO, I.I.; MALINOVSKAYA, I.A. [Malynov'ka, I.A.]

Effect of residual stresses on the fatigue strength of steel  
with a sharp stress concentrator. Dop. AN URSR no.8:1035-  
1037 '64. (MIRA 17:8)

1. Institut mekhaniki AN UkrSSR. Predstavleno akademikom  
AN UkrSSR. G.N. Savinym [Savin, H.M.]

ISHCHENKO, I.I., MALINOVSKAYA, I.A.

Corrosion-fatigue strength of ShKh15 ball-bearing steel following  
electric slag remelting. Vliian. rab. sred na svois. mat. no.3:124-  
129 '64. (MIRA 17:10)

USSR/General Problems of Pathology - Comparative Oncology.  
Tumors of Man.

U-3

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75546

Author : Ishchenko, I.K.

Inst :

Title : Primary Sarcoma of the Heart.

Orig Pub : Klinich. meditsina, 1956, 34, No 11, 80-83.

Abstract : A case of polymorphocellular sarcoma of the heart in a male 25 years old is described. The tumor the size of an egg, was located in the region of the anterior wall of right atrium, right ventricle and upper part of the inter-ventricular septum. Multiple metastases in pleura, lungs and lymph nodes of the lung portals were noted. -- Yu.N. Darkshevich.

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KRASOVITSKIY, B.M.; PEREYASLOVA, D.G.; ZADOROZHNYI, B.A.; VINETSKAYA, Yu.M.;  
ISHCHENKO, I.K.

Certain optical properties of 4-chloro-2-sulfobenzalacetophenone.  
Dokl. AN SSSR 160 no.1:123-124 Ja '65.

(MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov,  
stsintillyatsionnykh materialov i osobo chistykh khimicheskikh  
veshchestv. Submitted July 3, 1964.

KUTSYNA, L.M.; SIDOROVA, R.P.; VOYEVODA, L.V.; ISHCHENKO, I.K.; DEMCHENKO, N.P.

Effect of the structure on the optical characteristics of derivatives  
of some five-membered heterocycles. Izv. AN SSSR. Ser. fiz. 26 no. 10:  
1304-1305 0 162. (MIRA 15:10)

(Heterocyclic compounds—Optical properties)  
(Chemical structure)

L 14838-66 EWT(m)/EWP(j)/EWP(t)/EWP(b) IJP(c) JD/RM  
 ACC NR: AP5025299 SOURCE CODE: UR/0051/65/019/004/0551/0554

AUTHOR: Zadorozhnyy, B A.; Ishchenko, I K.

ORG: None

TITLE: Energy of hydrogen bonds and band shifts of stretching vibrations of C=O groups

SOURCE: Optika i spektroskopiya, v. 19, no. 4, 1965, 551-554

TOPIC TAGS: hydrogen bonding, IR spectrum, vibration spectrum

ABSTRACT: A comparison was made between the energies  $E_{hb}$  of inter- and intramolecular hydrogen bonds of the type C=O...H-O and the spectral band shifts  $\Delta \nu_{C=O}$  (caused by these shifts) of the stretching vibrations of C=O groups in some compounds of the benzene and naphthalene series. The strength of hydrogen bonds was estimated from the observed band shifts of stretching OH vibrations. The results showed that in the series of the compounds studied, a linear relationship exists between  $E_{hb}$  and  $\frac{\Delta \nu_{C=O}}{\nu_{C=O}}$  which can be expressed by

$$\frac{\Delta \nu_{C=O}}{\nu_{C=O}} = -K_{C=O} E_{hb}$$

Card 1/2 UDC: 535.338.42

L 14838-66

ACC NR: AP5025299

in which the proportionality coefficient  $K_{C=O}$  is equal to  $4 \times 10^{-3}$  mole kcal<sup>-1</sup>. The established correlation is not general and applies only to the special case of hydrogen bond of the type C=O...H-O in a series of aromatic carbonyl compounds and in the range of  $E_{hb}$  up to 10 kcal/mole. The above expression apparently holds for both intra- and intermolecular hydrogen bonds; it can be used for approximately estimating the energy of this type of bonds, particularly in cases where measurements in the region of OH vibrations are experimentally difficult to carry out. Orig. art. has: 2 figures, 2 tables, and 2 formulas.

SUB CODE: 07, 20 / SUBM DATE: 13Apr64 / ORIG REF: 003 / OTH REF: 005

Card 2/2 *ye*

ISHCHENKO, I.K. (Kazan'); IVANOVA, O.S. (Kazan')

Diagnostic value of the determination of uropepsin in gastric and  
duodenal ulcer in young persons. Kaz. med. zhur. no.6:47-48 N-D  
'60. (UROPEPSIN) (PEPTIC ULCER) (MIRA 13:12)

ISHCHENKO, I.K. (Kazan)

Late results of conservative treatment of gastric and duodenal ulcer  
in young persons. Kaz. med. zhur. no. 2:30-32 Mr-Apr '61.

(PEPTIC ULCER)

(MIRA 14:4)

ISHCHENKO, I.K.

Concomitant lesions of the liver, gall bladder and pancreas in  
peptic ulcer. Kaz.med.zhur. no.4:66-68 J1-Ag '62. (MIRA 15:8)  
(PEPTIC ULCER) (LIVER--DISEASES) (GALL BLADDER--DISEASES)  
(PANCREAS--DISEASES)

ISHCHENKO, I.K. (Kazan')

Intravital diagnosis of thrombosis of the pancreatic artery.  
Kaz. med. zhur. 4:53 11-4g'63 (MIRA 17:2)

ACC NR: AT6034037

SOURCE CODE: UR/0000/66/000/000/0147/0149

AUTHOR: Voyevoda, L. V.; Oksyuk, A. A.; Sidorova, R. P.; Ishchenko, I. K.;  
Khudenskiy, Yu. K.; Tishchenko, V. G.

ORG: none

TITLE: Correlation of the structure of the first coordination sphere with emission spectra of europium benzoylacetonate

SOURCE: Simpozium po spektroskopii kristallov, soderzhashchikh redkozemel'nyye elementy i elementy gruppy zheleza. Moscow, 1965. Spektroskopiya kristallov (Spectroscopy of crystals); materialy simpoziuma. Moscow, Izd-vo Nauka, 1966, 147-149

TOPIC TAGS: ~~europium complex, organoeuropium compound~~, luminescence spectra, IR spectrum, chelation, crystal symmetry, absorption spectrum, emission spectrum, benzene, europium compound, acetone, complex moleculeABSTRACT: Infrared absorption spectra of the microcrystalline  $\text{EuB}_3\text{P}$ ,  $\text{EuB}_4\text{HP}$ , and  $\text{EuB}_3\text{H}(\text{NH}_3)$  complexes, where B is benzoylacetonate and P is piperidine, were measured at 77K to clear up the controversy about the degree of distortion of the first coordination sphere of the  $\text{Eu}^{3+}$  ion. This study was prompted by the reported difference in the luminescence spectra of  $\text{Eu}^{3+}$  in benzoylacetonate complexes with different bases and by the earlier failure to correlate the emission spectra with the symmetry of the ligand field. A difference in the luminescence spectra of the

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ACC NR: AT6034037

above Eu chelates was noted, even though they contained the same base, and was attributed to different structural modifications of the europium benzoylacetonate. The shape of the infrared spectra of the complexes studied confirmed the assumption of a continuous decrease in distortion of the coordination oxygen octahedron in the process of formation of the tetraligand  $\text{EuB}_4\text{HP}$ . The  $\text{EuB}_3\text{P}$  complex is formed first in the process of synthesis and displays infrared spectrum identical with that of  $\text{EuB}_3\text{H}(\text{NH}_3)$ . Depression of the spectral line corresponding to  $^5\text{D}_0-^7\text{F}_0$  transition in  $\text{EuB}_4\text{HP}$  as compared to  $\text{EuB}_3\text{P}$  indicated a decrease in distortion of the coordination octahedron and was accompanied by an increase in relative luminescence yield. The spectral characteristics of  $\text{EuB}_4\text{HP}$  and  $\text{EuB}_4\text{HM}$ , where M is morpholine, are, therefore, correlated with the increase in symmetry of the first coordination sphere in comparison with  $\text{EuB}_3\text{P}$  or  $\text{EuB}_3\text{H}(\text{NH}_3)$ . Orig. art. has: 2 figures and 1 table.

SUB CODE: 07/ SUBM DATE: 25Mar66/

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ACC NR: AT6034038

SOURCE CODE: UR/0000/66/000/000/0150/0152

AUTHOR: Oksyuk, A. A.; Voyevoda, L. V.; Sidorova, R. P.; Ishchenko, I. K.;  
Tishchenko, V. G.; Khudenskiy, Yu. K.

ORG: none

TITLE: Coordination symmetry of the emitting ion in various rare-earth element  
chelates

SOURCE: Simpozium po spektroskopii kristallov, sodержashchikh redkozemel'nyye  
elementy i elementy gruppy zheleza. Moscow, 1965. Spektroskopiya kristallov  
(Spectroscopy of crystals); materialy simpoziuma. Moscow, Izd-vo Nauka, 1966, 150-152

TOPIC TAGS: rare earth complex, organoeuropium compound, organogadolinium compound,  
organoterbium compound, organodysprosium compound, organoholmium compound, chelate,  
luminescence spectrum, IR spectrum, crystal symmetry, absorption spectrum,  
benzene, acetone, complex molecule, rare earth element

ABSTRACT: A study of the infrared absorption spectra of the rare-earth element  
benzoylacetates [same source, p. 147-149] was extended to the microcrystalline  
protonized modifications  $MeB_n$ , where Me = Eu, Gd, Tb, Dy, or Ho and B = benzoylace-  
tone. The purpose of the study was to evaluate the effect of splitting of the f  
energy levels in the ligand field on the frequency shift of the infrared absorption  
bands of carbonyl groups (1500-1610  $cm^{-1}$  region). The frequency shift in this  
region, as in the 500-900  $cm^{-1}$  region, reflects a decrease in distortion of the

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ACC NR: AT6034038

first coordination sphere. The microcrystalline  $\text{MeB}_4$  complexes were expected to display higher symmetry of the first coordination sphere by analogy with the  $\text{MeB}_4\text{HF}$  complexes. The graph of the frequency of carbonyl band ( $\sim 1575 \text{ cm}^{-1}$ ) of  $\text{MeB}_4$  complexes versus the atomic number of Me exhibited the "gadolinium angle" analogous to the one observed earlier on the graph of stability constants of the same complexes. The "gadolinium angle" may be correlated with a uniform distribution of f-electrons between orbitals of the Gd atom. Orig. art. has: 3 figures and 1 table.

SUB CODE: 07/ SUBM DATE: 25May66/

Card 2/2

ISHCHENKO, I.M.

State of stress of an elliptical orthotropic ring under uniform pressure. Dop. AN URSR no.8:1024-1030 '60. (MIRA 13:9)

1. Khar'kovskiy avtomobil'no-dorozhnyy institut. Predstavleno akademikom AN USSR G.N. Savinym.  
(Strains and stresses)

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85930

S/140/60/000/003/009/011  
C111/C222

16.7300

AUTHORS: Makhovikov, V.I., and Ishchenko, I.M.

TITLE: The Determination of Tensions in a Space of an Orthotropic Medium  
With a Cylindric Cavity

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1960,  
Nr.3, pp.205-212

TEXT: The authors consider an elastic orthotropic body with a cylindric cavity, the generators of which are parallel to the z-axis, while the body is bounded by the planes  $z = h$ ,  $z = -h$ . The directrix of the cylinder is an arbitrary curve L. At first the authors give the conditions of equilibrium in the shifts  $u$ ,  $v$ ,  $w$ , according to (Ref.1). Then the following arrangement is made for the shifts:

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S/140/60/000/003/009/011  
C111/C222

The Determination of Tensions in a Space of an Orthotropic Medium With a Cylindric Cavity

$$\begin{aligned}
 (2) \quad u &= 2 \operatorname{Re} \left[ f(z) (\varphi_2 + \psi_2) + f'(z) (\varphi_1 + \psi_1 + \beta_1 \int \lambda_1 d\xi_1) + \right. \\
 &\quad \left. + f''(z) (\varphi_0 + \psi_0 + \beta_1 \int \lambda_1 d\xi_1 + \alpha_2 \bar{\xi}_1 \int \varphi_1 d\xi_1 + \alpha_2' \bar{\xi}_2 \int \varphi_2 d\xi_2) \right], \\
 v &= 2 \operatorname{Re} \left[ f(z) (\alpha_0 \varphi_2 + \beta_0 \psi_2) + f'(z) (\alpha_0 \varphi_1 + \beta_0 \psi_1 + \beta_2 \int \lambda_2 d\xi_2) + \right. \\
 &\quad \left. + f''(z) (\alpha_0 \varphi_0 + \beta_0 \psi_0 + \alpha_2 \alpha_0 \bar{\xi}_1 \int \varphi_2 d\xi_1 + \alpha_2' \beta_0 \bar{\xi}_2 \int \psi_2 d\xi_2 + \right. \\
 &\quad \left. + \alpha_3 \int d\xi_1 \int \varphi_2 d\xi_1 + \alpha_3' \int d\xi_2 \int \psi_2 d\xi_2 + \beta_2 \int \lambda_1 d\xi_1) \right], \\
 w &= 2 \operatorname{Re} \left[ f(z) \lambda_2 + f'(z) (\lambda_1 + \alpha_1 \int \varphi_2 d\xi_1 + \alpha_1' \int \psi_2 d\xi_2) + \right. \\
 &\quad \left. + f''(z) (\lambda_0 + \alpha_1 \int \varphi_1 d\xi_1 + \alpha_1' \int \psi_1 d\xi_1 + \beta_2 \bar{\xi}_2 \int \lambda_2 d\xi_2) \right].
 \end{aligned}$$

where  $\operatorname{Re} [ \ ]$  means the real part of the bracket,  $f(z)$  is a polynomial of second degree,  $\varphi_s = \varphi_s(\xi_1)$ ,  $\psi_s = \psi_s(\xi_2)$ ,  $\lambda_s = \lambda_s(\xi_1)$  ( $s=0,1,2$ ) are

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S/140/60/000/003/009/011  
C111/C222

The Determination of Tensions in a Space of an Orthotropic Medium With a Cylindric Cavity

analytic functions of the  $\xi_1, \xi_2, \xi_3$  ( $\xi_j = x + \mu_j y, j=1,2,3$ ) and  $\alpha_i, \alpha_k, \beta_e$  are constants. By substituting (2) in the conditions of equilibrium the authors obtain three expressions of the type

$$\operatorname{Re} [f(z) \cdot C_{1i} + f'(z) C_{2i} + f''(z) C_{3i}] = 0, \quad i=1,2,3.$$

Now the unknown constants are obtained from the claims  $C_{ji} = 0$  ( $j,i=1,2,3$ ). The functions  $\varphi_s, \psi_s, \lambda_s$  are then found from the boundary conditions, if the shifts on the cylindrical surface are given in the form 16 X

$$(13) \quad \begin{aligned} u &= 2 \operatorname{Re} f(z) p_2 + f'(z) p_1 + f''(z) p_0, \\ v &= 2 \operatorname{Re} f(z) q_2 + f'(z) q_1 + f''(z) q_0, \\ w &= 2 \operatorname{Re} f(z) t_2 + f'(z) t_1 + f''(z) t_0, \end{aligned}$$

where  $p_j, q_j, t_j$  are given functions of the arc of L.

The performance of this method is discussed with the example of a cavity  
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S/140/60/000/003/009/011  
C111/G222

The Determination of Tensions in a Space of an Orthotropic Medium With a Cylindric Cavity

for which L is an ellipse, where the boundary conditions are chosen as if at two mutually symmetrical equal pieces of arcs of the ellipse two dies were impressed in it, while the remaining arc of the ellipse is tightly clamped. ✓

There are 2 figures, 1 table and 4 Soviet references.

[Abstracter's note: (Ref.1) concerns S.G.Lekhnitskiy, Theory of Elasticity of the Anisotropic Body, 1950]

ASSOCIATION: Khar'kovskiy avtomobil'no-dorozhnyy institut (Khar'kov Highway Construction Institute)

SUBMITTED: April 28, 1958

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SOV/21-59-6-8/27

AUTHOR: Ishchenko, I. M.

TITLE: Stress Distribution in an Orthotropic Elliptic Plate

PERIODICAL: Dopovidi Akademii Nauk Ukrain's'koi RSR, 1959, Nr 6,  
pp 605 - 610 (USSR)

ABSTRACT: This article presents an approximate solution of the plane-stress problem of the theory of elasticity for an orthotropic elliptical plate, and a description of an investigation of the stress state for several cases of concentrated load action. The works by S. G. Lekhnitskiy [Ref. 1] and P. P. Kufarev [Ref. 2] have solved the plane-stress problem of the theory of elasticity, for the case of a uniform anisotropic plate, but the solution is been suitable for the ascertainment of stress numerical values. Such ascertainment is known to have been made only by H. Okubo [Ref. 3]. The author made up his mind to supplement the solution by using the solution found by P. P. Kufarev with stress numerical values. The process of solving the above named problem is reduced to determining two functions  $\Phi(z_1)$  and  $\Psi(z_2)$ , complex

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## Stress Distribution in an Orthotropic Elliptic Plate

SOV/21-59-6-3/27.

variables  $z_k = x + \mu_k y$  ( $k = 1, 2$ ), simple and regular with respect to regions  $D_k$ , obtained from the exit area by way of affine transformation. The author starts off with examination of functions:

$$z = w(\zeta) = c(\zeta + m\zeta^{-1}), \quad z_k = w_k(\zeta_k) = c_k(\zeta_k + m_k\zeta_k^{-1}),$$

$$(k=1, 2), \quad (1)$$

by means of which, at

$$m = \frac{1 - e_0}{1 + e_0}; \quad m_k = \frac{1 - e_0 \delta_k}{1 + e_0 \delta_k}; \quad c_k = \frac{a(1 + e_0 \delta_k)}{2};$$

$c = \frac{a+b}{2}$ , where  $a$  and  $b$  are ellipsis semi-axes,  $e_0 = \frac{b}{a}$ ,

$\mu_k = \delta_k^{-1}$  are complex parameters, the sectional circle  $D'_k$

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## Stress Distribution in an Orthotropic Elliptic Plate

is conformally reflected upon the area  $D_k$ , at

$$\lambda_k \leq |\zeta_k| \leq 1,$$

where  $\lambda_k = \sqrt{|m_k|}$  ( $\lambda_k < 1$ , because  $\delta_k > 0$ ). Upon the reflection, the functions  $\Phi(z_1)$  and  $\Psi(z_2)$  are transformed into functions  $\varphi_0(\zeta_1)$  and  $\psi_0(\zeta_2)$ , which are simple and regular respectively in circles  $D'_1$  and  $D'_2$ . Then, by means of a boundary equation (2) the author ascertains the latter functions and after a series of operations, making use of B. I. Makhovikov's expansion of functions and the Shvatz formula, finally arrives at the desired numerical value. Then the author illustrates his finding by solving three practical problems. Graph shown in Figure 1 presents the stress distribution  $\sigma_x$  and  $\sigma_y$ , calculated with the use of functions (15) and (16), and a curve  $\alpha$  of fading of stresses  $\sigma_x$  along the line of acting forces. Its data

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Stress Distribution in an Orthotropic Elliptic Plate

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shows that the achieved result of calculation is very close to that made by H. Okubo, although it was arrived at by a different method. In conclusion the author states, that the graphs (Figures 1-2-3) show that the greatest absolute stresses are experienced by areas located perpendicularly to the line of application of forces.

There are 3 graphs and 5 references, 4 of which are Soviet and 1 English.

ASSOCIATION: Khar'kovskiy avtomobil'no-dorozhnyy institut (Khar'kov Automobile Road Construction Institute)

PRESENTED: By G. N. Savin, Member, AS UkrSSR

SUBMITTED: Januar 21, 1959.

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ISHCHENKO, I. M., CAND TECH SCI, <sup>Study</sup> "INVESTIGATION OF THE  
STRESSED STATE OF ANISOTROPIC ELLIPTIC DISKS AND RINGS."  
KHAR'KOV, 1961. (MIN OF HIGHER AND SEC SPEC ED USSR.  
KHAR'KOV ENGINEERING AND CONSTRUCTION INST). (KL-DV,  
11-61, 220).

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ISHCHENKO, I. M.

Ishchenko, I. M. - "The period and photometric orbit of Z. Draconis", Byulleten' Tashk. astron. observatorii, Vol. II, No. 9, 1947, p. 435-71, Bibliog: 38 items.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

ISHCHENKO, I. M.

Ishchenko, I. M. - "On a law of eclipsed variable stars", Byulleten' Tashk. astron. observatorii, Vol. II, No. 9, 1947, p. 472-74, - Bibliog: 7 items.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

ISHCHENKO, I.M.

Period of the eclipsing binary MR Cygni. Per. zvezdy 10 no.5:  
302-308 '55. (MLRA 9:9)

1. Tashkentskaya astronomicheskaya observatoriya AN Us.SSR.  
(Stars, Variable)

ISHCHENKO, I.M.; LEYBOVICH, Ye.M.

Eclipsing variable stars V609 Aquilae and DM Delphini  
[with summary in German]. Per. zvezdy 10 no.6:403-405  
J1 '55.

(MLRA 10:2)

1. Tashkentskaya astronomicheskaya observatoriya AN UzSSR.  
(Stars, Variable)

ISHCHENKO, I.M.

Determining minima of eclipsing binaries having asymmetric light curves [with summary in German]. Per.svezdy 11 no.3:210-212  
F '57. (MIRA 12:1)

1. Tashkentskaya astronomicheskaya observatoriya AN UzSSR.  
(Stars, Variable)

ISHCHENKO, I.M.

Applying the Hertzsprung method for determining the epochs of  
minima of MR Cygni. Per.svesdy 12 no.2:117-118 N '57.  
(MIRA 13:4)

1. Tashkentskaya astronomicheskaya observatoriya AN UzSSR.  
(Stars, Variable)

ISHCHENKO, I.M.

Tashkent Astronomical Observatory. Izv. AN Uz. SSR. Ser.fiz.-mat.  
nauk no.6:87 '58. (MIRA 12:2)  
(Tashkent--Astronomical observatories)

26.4200

1536 1327 1080

26857  
S/021/60/000/008/005/011  
D210/D305

AUTHOR: Ishchenko, I.M.

TITLE: The stressed state of an orthotropic elliptical ring under the action of uniform pressure

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 8, 1960, 1024 - 1030

TEXT: The aim of the paper is to find a solution for the equilibrium of the stressed state of an orthotropic elliptical ring under the action of uniform pressure, using the method of complex functions. Let Fig. 1 represent an orthotropic elliptical ring with fixed thickness under the action of internal pressure  $p_0$  and external pressure  $p_1$  and let  $L_0$ ,  $L_1$  be the internal and external boundary of the ring;  $a$  and  $b$  are major and minor semi-axes of the ellipse. The equations of ellipses  $L_0$  and  $L_1$  could be put in the form  
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The stressed state of an ...

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S/021/60/000/008/005/011  
D210/D305

$$Z_0 = C(z + m\bar{z}), \quad Z_1 = \lambda^{-1}C(z + \lambda m\bar{z}), \quad (z = e^{i\theta}, \quad -\pi < \theta < \pi), \quad (1)$$

where

$$C = \frac{a+b}{2}, \quad m = \frac{a-b}{a+b}, \quad \lambda = \frac{a+b}{a+b+2i} \quad \text{②}$$

It is known from H.N. Savin (Ref. 1: Kontsentratsiya napryazheniy okolo otverstiy (Concentration of Stresses Round the Cavities), HITTL 1951, 39) that the solution of the problem is reduced to finding two analytical functions  $\varphi(z_1)$ ,  $\psi(z_2)$  where

$$z_1 = x + \mu_1 y \quad \text{and} \quad z_2 = x + \mu_2 y \quad (2)$$

which on the boundary of the region satisfy

$$r_1 \varphi(z_1) + r_1' \overline{\varphi(z_1)} + r_2 \psi(z_2) + r_2' \overline{\psi(z_2)} = \int (P_n + \Pi_n) dz, \quad (3)$$

where  $r_j = 1 + i\mu_j$ ,  $r_j' = 1 + i\bar{\mu}_j$ ,  $u_j = i\delta_j$  and  $\delta_j$  is a real constant. To find the solution of problem (3) the method of V.I. Card 2/7

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Makhovikov (Ref. 3: *Prykladna mekhanika* (Applied Mechanics) 3, 26, 1957) will be used, according to which two mapping functions  $z_j = \omega_j(\zeta_j)$  ( $j = 1, 2$ ) and equations of curves  $\zeta_{0j}, \zeta_{1j}$  have to be found, such that

$$\omega_j(\zeta_{0j}) = z_{0j} \quad (6), \quad \omega_j(\zeta_{1j}) = z_{1j} \quad (7)$$

where  $\zeta_{0j}, \zeta_{1j}$  are equations of the curves corresponding to  $L_{0j}$  and  $L_{1j}$  in the plane  $Z_j$  ( $Z_0$  and  $Z_1$ , pass by transformations (2) into  $L_{0j}$  and  $L_{1j}$ ). By taking

$$z_j = \omega_j(\zeta_j) = c_{0j}(\zeta_j + m_{0j}\zeta_j^{-1}), \quad \zeta_{0j} = \varepsilon \quad (8)$$

Eq. (6) will be automatically fulfilled. To satisfy (7) the author considers equations of the curve  $\zeta_{1j}$  in the form

$$\zeta_{1j} = A_j \varepsilon e^{\nu_j \zeta_{1j}} \quad (9)$$

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where  $\Lambda_j$  and  $V_j$  are constants to be found. By comparison of coefficients the author found that if

$$\Lambda_j = \frac{c_{1j}}{\lambda c_{0j}}, \quad v_j = m_{1j} - \frac{m_{0j} c_{0j}^2 \lambda^2}{c_{1j}}$$

then function  $\omega_j(\zeta_{1j})$  describes in the plane  $z_j$  an ellipse  $L_{1j}$ ; accurate up to the term

$$\Pi_j = \omega_j(\zeta_{1j}) - c_{1j} \lambda^{-1} (\varepsilon + m_{1j} \bar{\varepsilon}) \quad (11)$$

which represents the error of conformal mapping. The functions  $\varphi_1(\zeta_1)$  and  $\varphi_2(\zeta_2)$  are taken in the forms

$$\varphi_1(\zeta_1) = \sum_{k=1}^n (a_k \zeta_1^{2k-1} + a'_k \zeta_1^{-2k}), \quad \varphi_2(\zeta_2) = \sum_{k=1}^n (\beta_k \zeta_2^{2k-1} + \beta'_k \zeta_2^{-2k}), \quad (14)$$

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where  $n$  - any integer number. After some elementary calculation (substitution and comparison of coefficients), the author obtains

$$\left. \begin{aligned} a'_k &= a_k + a_1 a_k = b_1 \beta_k, & a''_k &= a_1 a_k + b_1 \beta_k \\ \beta'_k &= b_0 + a_2 a_k + b_2 \beta_k, & \beta''_k &= a_2 a_k + b_2 \beta_k \end{aligned} \right\} (k = 2, 3, \dots, n), \quad (16)$$

where

$$\left. \begin{aligned} a_0 &= (r_2 - r_2' m) C \Delta p_0, & b_0 &= (r_1' m - r_1) C \Delta p_0, & a_1 &= (r_2' r_1' - r_2 r_1) \Delta \\ b_1 &= (r_2'' - r_2') \Delta, & a_2 &= (r_1'' - r_1') \Delta, & b_2 &= -a_1, & \Delta &= (r_1' r_2 - r_1 r_2')^{-1} \end{aligned} \right\} \quad (17)$$

By a different substitution  $\zeta_j = \zeta_{1j}$  ( $j = 1, 2$ ), and expansion of  $\zeta_{1j}$  into the series of power  $\varepsilon$  and  $\bar{\varepsilon}$ , the author obtains equations from which  $\alpha_k$  and  $\beta_k$  could be found.

$$r_1 \varphi_1(\zeta_{11}) + r_1' \bar{\varphi}_1(\zeta_{11}) + r_2 \varphi_2(\zeta_{12}) + r_2' \bar{\varphi}_2(\zeta_{12}) = p_1 C \varepsilon^{-1} (\varepsilon + i m) \quad \text{на } L_1 \quad (13)$$

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D210/D305

X

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which represents the transformed Eq. (3) is only satisfied approximately. The author has therefore solved the given problem for boundary conditions strictly observed on  $L_0$ , and approximately only on  $L_1$ . As an example the author considers an elliptical ring; where  $b/a = 0.75$ ,  $t = b = 0.75 a$ ,  $\mu = 1.6791$ ,  $\mu_2 = 0.9711$ ; 1) under the action of an internal pressure  $p_0$  ( $p_1 = 0$ ); 2) under the action of an external pressure  $p_1$  ( $p_0 = 0$ ). There are 3 Soviet-bloc references.

ASSOCIATION: Kharkivs'kyy automobil'no dorozhnyy instytut (Automobile Highway Institute of Khar'kov)

PRESENTED: by H.M. Savin, Academician AS UkrSSR

SUBMITTED: August 27, 1959

Card 6/7

ISHCHENKO, I.M.

Photographic photometry of star trails. Astron. zhur. 41 no. 1:  
138-146 Jan-F. '64. (MIRA 17:4)

1. Tashkentskaya astronomicheskaya observatoriya AN Uzbekskoy SSR.

ISHCHENKO, I.M.; SLONIM, Yu.M., kand.fiz.-matem.nauk, otv.red.; EYDEL'MAN, A.S.,  
red.; KARABAYEVA, Kh.U., tekhn.red.

[Some eclipsing binary stars in constellations Cygnus, Lacerta, and  
Cepheus.] Nekotorye zatemnennye dvoinye zvezdy v sozvezdiakh Lebedia,  
Iashcherity i Tsefeia. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR,  
1963. 102 p. (Tashkent. Astronomicheskaiia observatoriia. Trudy, Ser. 2,  
vol. 9). (MIRA 16:9)

VOLOSHEVKO, H.W., inzh.; ISHCHEVKO, I.M., kand. tekhn. nauk

Determining the elastic and viscous characteristics of  
cohesive soils. Avt. dokl. dor. stud. no. 1861-66 '65.  
(MIRA 18:11)

ISHCHENKO, I.M., kand.tekhn.nauk; SADOVENKO, D.I., inzh.

Investigating the effect of the corrugation of crushing  
plates of stone jaw crushers on their efficiency. Avt.dor.  
i dor.stroi. no.1:85-90 '65.

(MIRA 18:11)

ACC NR: AP6007551 (A) SOURCE CODE: UR/0198/66/002/001/0127/0130

AUTHOR: Ishchenko, I. M. (Khar'kov)

ORG: Khar'kov Automotive and Road Institute (Khar'kovskiy avtomobil'no-dorozhnyy institut) 34 B

TITLE: Two problems on the stressed condition of a round orthotropic disk 24, 55

SOURCE: Prikladnaya mekhanika, v. 2, no. 1, 1966, 127-130

TOPIC TAGS: stress distribution, stress analysis, orthotropic material

ABSTRACT: The general problem of a round orthotropic disk loaded from two sides (as in Fig. 1c) has been previously solved by several authors, e.g., S. G. Lekhnitskiy (Anizotropnyye plastinki, Gostekhizdat, 1957). Based on the author's general solution for the elliptical anisotropic plate (Napryazhennoye sostoyaniye ellipticheskikh anizotropnykh plastin pri deystvii sosredotochennykh sil, prilozheniykh k konturu, Izv. vuzov, Stroitel'stvo i arkhitektura, No. 9, 1958), the solutions for orthotropic disks loaded as shown in Figs. 1a and b are derived in the present paper. Tables of the numerical values of the stress distributions shown in Figs. 1a and b for a particular example are presented.

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L 23302-66

ACC NR: AP6007551

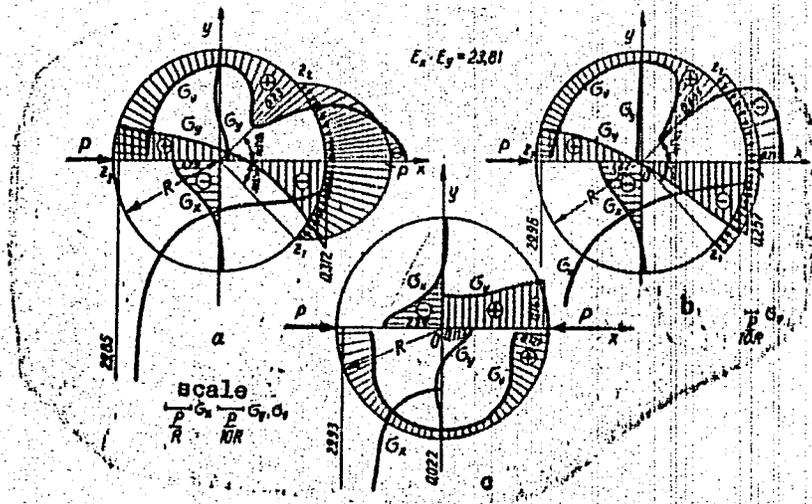


Fig. 1.

Loaded disks.

Orig. art. has: 2 tables, 1 figure, and 4 formulas.

SUB CODE: 3, 20/ SUBM DATE: 04May64/ ORIG REF: 005/ OTH REF: 004.

Card 2/2

ISHCHENKO, I.M., general-mayor medichnoi sluzhby, prof.

Sympathetic reflex syndromes. Medych.zhur. 16:426-443 '47. (MIRA 10:12)

1. Z viddilu eksperimental'noi i klinichnoi khirurgii (zav. - prof. I.M.Ishchenko) Institutu eksperimental'noi biologii i patologii im. akad. O.O.Bogomol'tsya Ministerstva okhoroni zdorov'ya URSS (direktor - prof. O.O.Bogomolets') i z kafedri sagal'noi khirurgii (zav. - prof. I.M.Ishchenko) Kiivs'kogo medichnogo institutu im. akad. O.O.Bogomol'tsya (direktor - dots. T.Ya.Kalinichenko). 2. Chlen-korespondent AN URSS.

(NERVOUS SYSTEM, SYMPATHETIC) (REFLEXES) (DYSTROPHY)

ISHCHENKO, I.M.  
ISHCHENKO, I.M., prof.

Development and treatment of wound sepsis. Medych.zhur. 17:61-85  
'47. (MIRA 11:1)

1. Z viddilu eksperimental'noi i klinichnoi khirurgii (zav. -  
chl.-kor. AN URSS prof. AN URSS prof. I.M.Ishchenko) Institutu  
eksperimental'noi biologii i patologii Ministerstva okhrani  
zdorov'ya URSS (direktor - akad. O.O.Bogomolets').  
(WOUNDS—TREATMENT)

ISHCHENKO, I.M.

[Practical manual for feldshers] Praktychnyi posibnyk dlia fel'dshers-  
riv. Kyiv, Derzh. med. vyd-vo URSS, 1954. 591 p. (MLRA 10:2)  
(MEDICINE--HANDBOOKS, MANUALS, ETC.)

ISHCHENKO, I.M., prof.; MUZYKA, K.O., kand.med.nauk

Intubation and potentiated anesthesia. Ped., akush. i gin. 19  
no.3:34-39 '57. (MIRA 13:1)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. I.M. Ishchenko)  
Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta  
im. akad. A.A. Bogomol'tsa (direktor - dots. I.P. Alekseyenko).  
(ANESTHESIA)

ISHCHENKO I. N.

ORLOV, V.P., kand.sel'skokhoz.nauk. Prinsipalni uchastiye: AVROV, N.N.;  
BASENKO, P.V.; VARLAMOV, D.A.; VASIL'YEV, I.I.; VLASOV, V.N.;  
VYLEGZHANINA, V.A.; ZHIVET'YEV, V.G.; ZAVADSKIY, I.S.; ZALESKIY,  
Ye.Ye.; ZAKORYUKIN, D.S.; ISHCHENKO, I.N.; KACHIBAYA, I.D.; KISE-  
LEV, Ye.S.; KOZHEVNIKOV, I.Z.; LISITSYN, V.I.; MESHCHERYAKOV, V.F.;  
NYURIN-VERTSBERG, R.L.; PEREPELTSYA, V.M.; RYABKOV, A.D.; SKURIKHIN,  
I.P.; SOLOV'YEV, N.A.; YAS'KO, N.G.. GREBTSOV, P.P., red.; ZUBRILINA,  
Z.P., tekhn.red.

[Our farms in 1965] Nashi khoziaistva v 1965 godu. Moskva, Gos.  
izd-vo sel'khoz.lit-ry, 1959. 230 p. (MIRA 13:2)  
(Agriculture)

ISHCHENKO, I.N., zasl. deyatel' nauki prof., red.; FEDOROVSKIY, A.A.,  
zasl. deyatel' nauki prof., red.; PETROV, D.G., dots., red.;  
FEDOROV, I.I., prof., red.; YANOVSKIY, D.N., prof., red.;  
CHUCHUPAK, V.D., tekh. red.

[Transactions of the Sixth Enlarged Plenum of the Board of  
the Scientific Society of Surgeons of the Ukrainian S.S.R.  
and the 11th Republic Conference on Blood Transfusion] Tru-  
dy Rasshirennogo plenuma pravleniya Nauchnogo obshchestva  
khirurgov USSR i XI Respublikanskoi konferentsii po pereli-  
vaniyu krovi. Kiev, Gosmedizdat USSR, 1963. 392 p.

(MIRA 16:10)

1. Rasshirennyy plenum pravleniya Nauchnogo obshchestva  
khirurgov USSR i XI Respublikanskoy konferentsii po pereli-  
vaniyu krovi. 6th, Lvov, 1959. 2. Chlen-korrespondent AN  
Ukr.SSR (for Ishchenko).

(HEMATOLOGY--CONGRESSES) (BLOOD--TRANSFUSION)

157 CHEMICO, I. N.

BC

a-4

CLASS OF TREATMENT SHOCK. I. N. ISCHENKOV  
(Proc. Shock Congress, Kiev, 1967, 117-122). A  
Description and classification of types of shock.  
R. T.

ASB-22.A METALLURGICAL LITERATURE CLASSIFICATION

| GROUP | SECTION | SUBSECTION | RELATIONS | DETAILS |
|-------|---------|------------|-----------|---------|
|       |         |            |           |         |

ISHCHENKO, I. N.

Application of metal appliances in the treatment of fractures of the  
extremities. Vest khir. Grekons, Leningr. 72 no. 3:24-29 May-June  
1952. (CIME 22:4)

1. Of the Department of General Surgery (Head -- Prof. I. N. Ishchenko),  
Kiev Order of the Red Banner of Labor Medical Institute imeni Academician  
A. A. Bogomolets (Director -- Docent. T. Ya. Kalininchenko).

ISHCHENKO, I.N., professor (Kiyev, ul. Leontovicha, 2. kv. 21)

History of the development of surgery in the Ukraine. Vest. khir.  
74 no.5:5-19 JI-Ag '54. (MIRA 7:10)

(SURGERY, history,  
Russia)

ISHCHENKO, I.N.

USSR/General Problems of Pathology - Tumors.

S-4

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71499

Author : Ishchenko, I.N., Levich, G.A.

Inst :

Title : "ACS" [?] and Repeated Small Blood Transfusions in Complications Due to Tumour X-Ray Therapy.

Orig Pub : Citotoksiny in Sovrem. Medizine, Kiev, 1956, 224-230

Abstract : 225 breast cancer patients were studied (30- first stage, 55- second stage, 35- third stage and 25- fourth stage of cancer). The majority of them were operated on before X-ray therapy, and part of them were treated by X-ray preoperatively. Hematology, cancerolytic coefficient (CC), and skin testing with trypan blue (TB) was done on the patients.  $CC < 1.5$  and  $TB < 15$  were regarded as indications of lowered antitumour reaction. After X-ray, most of the patients showed a decrease in reactivity. And thus, the lowering of CC and TB was noted in 64 percent,

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USSR/General Problems of Pathology - Tumors.

S-4

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71499

the lowering of one of them in 24 percent, and the increase of both in 12 percent of patients. After a moderate dose (2400 ) of irradiation, leukopenia and lymphopenia arose in the patients. After "ACS" administration there was a rise in CC and TB in the patients; in 78 out of 80 patients, whose CC and TB were lowered due to X-rays, there occurred a return to normal in these findings. A rational combination of electric scalpel, X-rays, blood transfusions and the administration of "ACS" prolonged the life of breast cancer patients on the average by 30-53.4 months.

Card 2/2

- 39 -

ISHCHENKO, I.N., professor (Kiyev, ul. Leontovicha, d.2, kv.21)

Remarks on the technic of difficult splenectomy. Nov.khir. arkh.  
no.1:36-40 Ja-F '57. (MLRA 10:6)  
(SPLEEN--SURGERY)

ISHCHENKO, I.N., prof. (Kiyev, ul. Leontovicha, d.2, kv.21)

Principles of surgical tactics in acute diffuse peritonitis. Nov.  
khir. arkh. no.3:3-12 My-Je '58 (MIRA 11:9)  
(PERITONITIS)

AKIMOV, V.I.; ALKSEBYENKO, I.P.; ALBENT'YEVA, K.A.; AMOSOV, N.M.; ARUTYUNOV, A.I.;  
BRATUS', V.D.; VASHCHENKO, I.D.; GELLERMAN, D.S.; GRISHIN, M.A.;  
DANKHEYEVA, T.H.; DENISOVA, A.G.; DOLGOVA, M.P.; IVANOV, N.A.; ISHCHENKO,  
I.N.; KATS, V.A.; KOLOMIYCHENKO, M.I.; LAVRIK, S.S.; LIMAREV, A.A.;  
KAZAROVA, N.G.; NOVACHENKO, N.P.; PETRUNYA, S.P.; PKHAKADZE, A.L.;  
RUDENKO, F.A.; SERGIYEVSKIY, V.F.; TATSLIN, I.S.; TARTAKOVSKIY, B.S.;  
CHIZHONOK, P.I.; SHALABALA, M.P.; SHUMADA, I.V.; SHUPIK, P.L.

Konstantin Konstantinovich Skvortsov; obituary. Nov.khir.arkh.  
no.3:142-143 My-Je '59. (MIRA 12:10)  
(SKVORTSOV, KONSTANTIN KONSTANTINOVICH, 1871-1959)

ISHCHENKO, Ivan Nikolayevich, prof.; BRATUS', V.D., red.; LOKHMATYY,  
Ye.G., tekhnred.

[Operations on the bile tract] Operatsii na shelchnykh putiakh.  
Kiev, Gos.med.isd-vo USSR, 1960. 300 p.

(BILIARY TRACT--SURGERY)

(MIRA 14:1)

ISHCHENKO, I.N., prof., zaslushennyy deyatel' nauki, otv.red.; PARKHOMENKO, V.N., dotsent, red.; ALEKSIYENKO, I.P., dotsent, red.; BRATUS', V.D., dotsent, red.; KOLOMIYCHENKO, M.I., prof., zaslushennyy deyatel' nauki, red.; NOVACHENKO, M.P., prof., zaslushennyy deyatel' nauki, red.; FEDOROVSKIY, A.A., prof., red.; LEVCHUK, G.A., red.; LOKHMATYY, Ye.G., tekhred.

[Transactions of the Ninth Congress of Ukrainian Surgeons] Trudy IX s'yezda khirurgov Ukrainskoy SSR. Kiev, Gos.med.izd-vo USSR, 1960. 645 p. (MIRA 14:12)

1. S'yesd khirurgov Ukrainskoy SSR. 9th, Dnepropetrovsk, 1958.
2. Chlen korrespondent AN USSR (for Ishchenko). 3. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Novachenko).  
(UKRAINE--MEDICINE, INDUSTRIAL) (PEPTIC ULCER)  
(PANCREAS--DISEASES) (SURGERY)

KOROTKORUCHKO, V.P.; DVORNIKOVA, P.D.; ISHCHENKO, I.N.; Primal uchastnye:  
FEDORCHENKO, Ye.Ya.; LEVRESHCHUK, L.N.; FEDOROVA, A.P.;  
MALINOVSKIY, Yu.I.

Activity of some glycolytic enzymes in the blood of patients with  
cancer. Vop. med. khim. 7 no.3:273-276 My-Je '61. (MIRA 15:3)

1. First Surgical Clinic of the "A.A. Bogomolets" Medical  
Institute, and Institute of Biochemistry of the Academy of  
Sciences of the Ukrainian S.S.R., Kiev.

(CANCER)

(GLYCOLYSIS)

KOROTKOVICHKO, V.F.; FEDOROVA, A.F. [Fedorova, H.F.]; ISHCHENKO, I.N.  
[Ishchenko, I.M.]

Nature and properties of insoluble serum proteins from cancer patients. Ukr. biokhim. zhur. 36 no.1:32-45 '64.

(MIRA 17:12)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., and Department of Faculty Surgery of the A.A. Bogomolets Medical Institute, Kiev.

MAKAREVICH, Ya.A.; ISHCHEKNO, I.P.; UPOROVA, TS. I.; FINKHASOV, Z.I.

Bacteriological and immunological data on the significance of  
autoimmune mechanisms in dysentery and ulcerative colitis.  
Zhur. mikrobiol., epid. i immun. 43 no. 1:33-37 Ja '66  
(MIRA 19:1)

1. Tadzhikskiy institut krayevoy meditsiny AMN SSSR. Submitted  
January 1965.

~~ISHCHENKO~~, ~~...~~

ISHCHENKO

ISHCHENKO, Khariton Mikheylovich, kandidat sel'skokhozyaystvennykh nauk;  
YURRE, N.A., redaktor; SVETIAYEVA, A.S., redaktor izdatel'stva;  
KARASIK, N.P., tekhnicheskij redaktor

[Experience with silviculture in central provinces of the European  
U.S.S.R.] Opyt lesorassvedeniia v tsentral'nykh oblastiakh Evropei-  
skoi chasti SSSR. Moskva, Goslesbunizdat, 1957. 110 p. (MLRA 10:9)  
(Forests and forestry)

DOMNITSKIY, V.F.; ISHCHEENKO, K.N.

Manufacture of containers from low-grade lumber. Der. prom.  
14 no.6:24-26 Je '65. (MIRA 18:7)

GORLENKO, M.V.; ISHCHENKO, L.A.; CHINNOV, Ye.A.

Cultural and physiological characteristics of geographical  
populations of *Venturia inaequalis* Ad. and *Venturia pirina*  
Fuck. Nauch.dokl.vys.shkoly; biol.nauki no.1:88-92 '59.

(MIRA 12:5)

1. Rekomendovana kafedroy nizshikh rasteniy Moskovskogo gosudar-  
stvennogo universiteta im. M.V.Lomonosova.

(PEAR SCAB)

(APPLE SCAB)

ISHCHENKO, L.A.

Population of *Venturia inaequalis* Ad. and how it changes. *Agrobiologia*  
no.6:936-938 N-D '60. (MIRA 13:12)

1. Tsentral'naya geneticheskaya laboratoriya imeni I.V.Michurina,  
g.Michurinsk.  
(Apple—Diseases and pests)

ISHCHENKO, L. A.

Free amino acid content in leaves of apple varieties different as to their resistance to scab and their effect on the growth of *Fusicladium dentriticum* Fuck. in culture. Vest. Mosk. un. Ser. 6: Biol., no. 2: 15-20. Mr-Apr '65. (MIRA 18:5)

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Activity of oxidative enzymes in apple varieties different  
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Echinococcosis of the thyroid gland. Uzh. zap. Stavr. gos.  
med. inst. 8:140-144 '63 (MIRA 17:7)

1. Kafedra obshchey khirurgii (zav. - prof. Yu.S. Gilevich) Stavropol'skogo meditsinskogo instituta (rektor zasluzhannyy deyatel' nauki, prof. B.G. Badylin) 2-ye khirurgicheskoye otdeleniye Stavropol'skoy krayevoy klinicheskoy bol'nitsy (glavnyy vrach Yu.P. Zotov) i khirurgicheskoy otdeleniye Karachevskoy gorodskoy bol'nitsy (zav. otdeleniyem Sh.O. Aliyev).

NAZARENKO, V.S.; ISHCENKO, L.V. (Rostov-na-Donu)

Universal rotating chair-stand for studying the interaction of the  
**vestibular analyzor with other analysors.** Pat.fiziol.i eksp.terap. 6  
no.2:73-75 Mr-Ap '62. (MIRA 15:6)  
(LABYRINTH (EAR)) (PHYSIOLOGICAL APPARATUS)

ISHCHENKO, L.V.; MINKINA, A.I.

Automatic collector for collecting fluids. Lab. delo 8 no.2:59-60  
F '62. (MIRA 15:2)

1. Rostovskiy-na-Donu nauchno-issledovatel'skiy institut akusherstva  
i pediatrii Ministerstva zdavookhraneniya RSFSR (dir. - kand.med.nauk  
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Some biological characteristics of milk vetches in Turkmenia. Izv.  
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Study of the astragals of Kopet-Dag. Izv. AN Turk. SSR. Ser. biol.  
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1. Institut botaniki AN Turkmenskoy SSR.  
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ISHCHENKO, L. Ye.

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Ser. biol. nauk no. 3:17-24 1964 (MIRA 1964)

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ISHCHENKO, L. Ye.

Prospective species of astragals for cultivation in Kopet-Dag.  
Izv. AN Turk. SSR. Ser. biol. nauk no.6:18-26 '61. (MIRA 15:1)

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(KOPET-DAG MILK VETCHES)

ISHCHENKO, L.Ye.

Ecology of astragali in relation to vertical zonation and taxonomic position. Izv. AN Turk. SSR. Ser. biol. nauk no. 5:10-16 '62. (MIRA 15:11)

1. Institut botaniki AN Turkmensoy SSR.  
(MILK VETCHES) (BOTANY--ECOLOGY)

3.1200

78024  
SOV/33-37-1-24/31

**AUTHORS:** Ishchenko, M. A., Platonov, Yu. P., Sukhov, V. B.

**TITLE:** An Oscillographic Device for the Reception of Time Signals

**PERIODICAL:** Astronomicheskii zhurnal, 1960, Vol 37, Nr 1, pp 156-160 (USSR)

**ABSTRACT:** When time signals are received with widely used counters and chronoscopes, the errors are of the order of  $1.5 \times 10^{-3}$  sec. The chief reason is that it is not possible to distinguish visually the signals which are free from distortion. The authors designed a device which uses a screen attached to an electronic tube, and the radio wave received is spread along the circumference of this screen. The screen is 31 cm in diam, the electron tube is of long-duration afterglow type (31L033), and the speed of the ray is 10 rps. One division on the screen is 8 mm, corresponding to 1 millisecc. The shapes of one-second signals

Card 1/2

An Oscillographic Device for the Reception  
of Time Signals

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SOV/33-37-1-24/31

and of rhythmic signals are easily seen on the screen, and undistorted signals can easily be chosen. This device does not use any screening filters which suppress radio noises. After one month of thorough checking the device was put in operation on November 25, 1958. The errors of time signals received with this device vary from 1.3 to 0.3 in units of 0.001 sec. The authors express their thanks to the Collective of the Time Service of the Central Observatory and especially to P. V. Nazarov for their active participation in this work. There are 1 table; and 3 figures.

ASSOCIATION: Central Astronomical Observatory of the Academy of Sciences of USSR (Glavnaya astronomicheskaya observatoriya Akademii nauk SSSR)

SUBMITTED: August 5, 1959

Card 2/2

VINNIKOV, Ye. M.; ISHCHENKO, M. A.

Pulse-counting electronic circuits and their application in the  
Time Service. Izv. GAO 22 no. 3: 113-116 '61. (MIRA 14:11)  
(Time measurement)  
(Pulse techniques (Electronics))

32(3)

SOV/112-59-3-5084

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 3, p 111 (USSR)

AUTHOR: Ishchenko, M. F.

TITLE: Experience With Traction Substations of Barabinsk Section  
(Iz praktiki raboty tyagovykh podstantsiy Barabinskogo uchastka)

PERIODICAL: Elektr. i teplovozn. tyaga, 1958, <sup>2</sup>Nr 1, pp 23-24

ABSTRACT: Frequent arc-backs were observed in the operation of RMNV 500-kw mercury-arc rectifiers at the traction substations of Barabinsk section, Omsk railroad. To control this trouble, great attention is paid to maintaining the best temperature and load conditions, selecting the grid-current value, rejecting valves liable to arc-backs, etc. At the Bezlyudnoye substation, operating conditions of heat exchangers were altered. The exchangers now work with the cooling fan permanently on, and the air stream is controlled by baffles. This reduced the number of arc-backs during the winter months.

T.A.K.

Card 1/1

*Chief, Barabinsk ~~Section~~ Traction Substation*

ROMANYUK, N.M.; ISHCHENKO, M.I.

Content of sulfhydryl groups in the blood serum of animals  
following administration of the preparations  $A_1$  (ethymidine)  
and lymphin. Uch. zap. KIROI 7:198-200'61. (MIRA 16:8)  
(CYTOTOXIC DRUGS) (MERCAPTO GROUP)

ISHCHENKO, M. I.

Congenital case of Oppenheim's myatonia. Vrach. delo no.8:  
145-146 Ag'63. (MIRA 16:9)

1. Kafedra nervnykh bolezney (zav. - prof. A.A.Yarosh) Ter-  
nopol'skogo meditsinskogo instituta.  
(MUSCLES --DISEASES)

ISHCHENKO, M.M.

Amount of copper and manganese in the spinal fluid in brain tunic diseases in children. Vrach. delo no. 1:84-87 '61. (MIRA 14:4)

1. Kafedra nervnykh bolezney (zav. - prof. G.D. Leshchenko) Khar'kovskogo meditsinskogo instituta.

(BRAIN—DISEASES) (COPPER IN THE BODY) (MANGANESE IN THE BODY)

ISHCHENKO, M.M.

Copper and manganese content in the cerebrospinal fluid in  
meningitis in children. Zhur. nevr. i psikh. 61 no.7:979-983  
'61. (MIRA 15:6)

1. Khar'kovskiy meditsinskiy institut.

(MENINGITIS)

(COPPER IN THE BODY)

(MANGANESE IN THE BODY)

(CEREBROSPINAL FLUID)

YAROSH, A.A., prof.; ISHCHENKO, M.M.

Copper content in the blood serum in some diseases of the  
peripheral nervous system. Vrach. delo no.5:86-88 My '62.  
(MIRA 15:6)

1. Kafedra nervnykh bolezney (zav. - prof. A.A. Yarosh)  
Ternopol'skogo meditsinskogo instituta.

(COPPER IN THE BODY  
(NERVES, PERIPHERAL--DISEASES)

ISHCHENKO, M.M., aspirant

Content of copper and manganese in cerebrospinal fluid and  
blood serum in children with convulsive seizures. Trudy Khar.  
med. inst. no.50:99-109 '62. (MIRA 19:1)

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Khar'kovskogo meditsinskogo instituta.

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M.P.; LOBODA, I.P.

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prof. I.T.Shevchenko) Kiyevskogo nauchno-issledovatel'skogo rentgeno-  
radiologicheskogo i onkologicheskogo instituta.

ISHCHENKO, M.S., inzh.-mekhanik

Turbosprayer. Zashch. rast. ot vred. i bol. 8 no.3:27-28  
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Electric furnace for caking in chemical processes. Patent U.S.S.R.  
78,955, Dec. 31, 1949.  
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